ATENT COOPERATION TREAT.

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From the INTERNATIONAL SEARCHING AUTHORITY	MAR 0 9 2005
To: GOWLING & HENDERSON 2600 - 160 Elgin Street	PCT NOTIFICATION OF TRANSMITTEMED GS
OTTAWA, Ontario	THE INTERNATIONAL SEARCH REPORT AND
Canada, KIP 1C3	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing 08 March 2005 (08-03-2005) (day/month/year)
Applicant's or agent's file reference 08898996WO	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No PCT/CA2004/001940	International filing date 09 November 2004 (09-11-2004) (day/month/year)
Applicant KEENAN, JAMES	
1 [X] The applicant is hereby notified that the internat Authority have been established and is transmitt	ional search report and the written opinion of the International Searching ed herewith.
	e claims of the international application (see reals 40).
international search report.	s normally two months from the date of transmittal of the
Where? Directly to the International Bureau of WIF 1211 Geneva 20, Switzerland, Facsimile N	0.; +41 22 /40 14.33
For more detailed instructions, see the notes on the	
2. [] The applicant is hereby notified that no internat Article 17(2)(a) to that effect and the written op	ional search report will be established and that the declaration under inion of the International Searching Authority are transmitted herewith.
3. [] With regard to the protest against payment of	(an) additional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision the applicant's request to forward the texts of	ereon has been transmitted to the International Bureau together with the f both the protest and the decision thereon to the designated Offices.
	otest; the applicant will be notified as soon as a decision is made.
	. :
1 December 15 the combinement stricked to great of the thought the billion of the combinement of the combinement stricked to great the theorem.	te, the international application will be published by the International in, a notice of withdrawal of the international application, or of the I in Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a co- preliminary examination report has been or is to be established before the expiration of 30 months from the priority date.	he written opinion of the International Searching Authority to the py of such comments to all designated Offices unless an international . These comments would also be made available to the public but not
I agreement on must be filed if the applicant wishes to postpone	f some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority date (in 20 months from the priority date, perform the prescribed acts for entry

Name and mailing address of the ISA/CA

Commissioner of Patents

Canadian Patent Office

Box PCT, Ottawa/Gatineau K1A 0C9

Facsimile No.

Authorized officer

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Lucille Leonard (819) 953-1737

NOTES TO FROM PCT/ISA/220

These Notes are intended to give instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application nd the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FROM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

PATENT COOPERATION TREAT

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INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

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•				
Applicant's or agent's file reference 08898996WO		ent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. International filing PCT/CA2004/001940 09 November 200			International filing date (day/month/year) 09 November 2004 (09-11-2004)	(Earliest) Priority date (day/month/year) 12 November 2003 (12-11-2003)
Applica KEENA	nt N, JAME	ZS .		
This inte	mational s	earch report has been p	repared by this International Searching Authority and mational Bureau.	is transmitted to the applicant according to Article
This inte	mational s	earch report consists of	a total of 5 sheets.	
	[X]	It is also accompanie	d by a copy of each prior art document cited in this re	port.
1. Basi	is of the re	•	·	
8.	With it was	regard to the language, filed, unless otherwise	the international search was carried out on the basis of indicated under this item.	of the international application in the language in which
			onal search was carried out on the basis of a translatio tule 23.1(b)).	on of the international application furnished to this
· b.	[]	With regard to any r	ucleotide and/or amino acid sequence disclosed in t	the international application, see Box No. I.
2.	[x]	Certain claims wer	e found unsearchable (See Box II).	
3.	[]	Unity of invention	is lacking (See Box III).	
4. W	ith regard	to the title.		
	[x]	the text is approved	as submitted by the applicant.	
·	[]	the text has been es	ablished by this Authority to read as follows:	
			•	
	•			
5. V	 Vith regard	to the abstract.		,
	[x]	the text is approved	as submitted by the applicant.	
	[]	the text has been es month from the dat	tablished, according to Rule 38.2(b), by this Authority e of mailing of this international search report, submit	y as it appears in Box IV. The applicant may, within one comments to this Authority.
6. V	Vith regard	to the drawings,	•	
. a	. The	figure of the drawings	to be published with the abstract is Figure No. 1A	
		[x] as suggeste	ed by the applicant.	
		[] As selected	I by this authority, because the applicant failed to sugg	gest a figure.
		[] As selected	I by this Authority, because this figure better character	rizes the invention.
1.	. []	None of the figure	is to be nublished with the abstract.	

INTERNATIONAL SEARCH REPORT

...(ernational application No. PCT/CA2004/001940

В	ox No. II	Observations where certain claims were found unsearchable (Continuation of Rein 2 of Res ance)
Π	nis intern	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	[x]	Claims Nos.: 37 and 45-55 because they relate to subject matter not required to be searched by this Authority; namely:
		claim 37 is directed to a method of treatment of the human or animal body (Rule 39.1 (iv) PCT); claims 45-55 are directed to a method of treatment of the human or animal body (Rule 39.1 (iv) PCT), however, the search was carried out based on the alleged effects of the device.
: 2.	[]	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3	. []	Claims Nos.: because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
F	ox III	Observation where unity of invention is lacking (Continuation of item 3 of first sheet)
'n	his Inter	national Searching Authority found multiple inventions in this international application, as follows:
	•	
		,,
	1. []	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
	2. []	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	3. []	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
	4. []	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
	Remark	on Protest [] The additional search fees were accompanied by the applicant's protest. [] No protest accompanied the payment of additional search fees.
١		[] 140 protest accompanies the payment of auditorial sources.

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001940

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A. CLASSIFICATION OF SUBJECT MATTER

A61L-27/28, A61L-27/54, A61P-35/00 A61P-31/00 A61P-31/12 A61F-2/01 A61L-27/38 A61K-35/14 A61F-2/02 A61L-27/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61L, A61F, A61P-35/00 A61P-31/00 A61P-31/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used) Delphion, USPTO, Canadian Patent Database and PubMed

Keywords: implant, prosthe* and similar terms; chemokine, agonist, bacteria toxin and similar terms; attract*, chemoattract*, bind* and similar terms; local*, concentrat*; therap*, chemotherap*, treat* and similar terms; vascular, vessel, fluid and similar terms; cell

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Canadian Patent Office - PCT Ottawa/Gatineau KIA 0C9

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	US 4,732,155 (Zetter, B. R. et al.) 22 March 1988 (22.03.1988) entire document	1-3, 6, 8-10, 13-15, 34- 36, 45 and 46
Y		11, 12, 17-21, 26-31, 38, 40, 42-44, 47-49, 51, 52, 54 and 55
P, X	US 2004/0191246 A1 (Connelly, P. R. et al.) 30 September 2004 (30.09.2004) entire document	1-3, 6, 8-10, 13, 17-20, 30, 34-36, 38, 43 and 45-49
Y	CA 2,178,541 (Fearnot, N. E. et al.) 08 December 1996 (08.12.1996) Abstract, Claims, pages 4-10	17-21, 30, 31, 38, 43, 47- 49 and 51
Y :	WO 03/061718 (Shepard, D. C. et al.) 31 July 2003 (31.07.2003) Abstract, Claims, pages 2-4 and page 8 par. [0042]	17, 18, 38 and 47-49

	·	
Furt	her documents are listed in the continuation of Box C.	Patent family members are listed in annex.[X]
* "A" "E" "L" "O"	to be of particular relevance earlier application or patent but published on or after the internation filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
	of the actual completion of the international-type search anuary 2005 (18-01-2005)	Date of mailing of the international-type search report 08 March 2005 (08-03-2005)
Nam	ne and mailing address of the ISA/CA Commissioner of Patents	Authorized officer Stephen Decker (819) 934-2333

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001940

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
7	WO 03/022360 (Handy, E. S. et al.) 20 March 2003 (20.03.2003) Abstract, pages 5-6, page 8 (lines 1-18), page 23 (lines 11-24), page 28 (lines 22-30), Examples and Figure 8	11, 12, 17, 28-30, 38, 40, 42-44, 47-49, 52 and 54	
Y	CA 2,434,320 (Vicari, A. P. et al.) 01 August 2002 (01.08.2002) Abstract, Claims, pages 5-6, page 7 (lines 30-37), page 8 (lines 20-25), page 9 (line 6) - page 10 (line 7) and page 10 (lines 30-37)	17, 26, 27, 38, 40 and 47-49 17, 38, 47-49, 52 and 55	
′	US 6,366,808 B1 (Schroeppel, E. A. et al.) 02 April 2002 (02.04.2002) Abstract, col. 1 (lines 27-40), col. 9 (lines 50-65), col. 12 (lines 31-46) and Figures 10 and 12		
A.	US 2002/0131953 A1 (Takashima, A. et al.) 19 September 2002 (19.09.2002)	1-55	
A	WO 00/59422 (Carroll, R. G.) 12 October 2000 (12.10.2000)	1-55	
A	el-Sawy, T. et al. "Chemokines: directing leukocyte infiltration into allografts" Current Opinion in Immunology 2002, 14, 562-568	1-55	
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INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/CA2004/001940

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
JS4732155	22-03-1988	None	
JS2004/0191246	30-09-2004	None	
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	•	DE10084445 T0	11-07-2002 03-01-2002
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